

Application No. 10/623,370
SD-7250.1

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AMENDMENTS TO THE CLAIMS

• Please amend the claims as follows:

1. (CANCELLED)

2. (previously presented) The formulation according to claim 17, wherein said cationic surfactant comprises a quaternary ammonium salt selected from the group consisting of cetyltrimethyl ammonium bromide, benzalkonium chloride, benzethonium chloride, cetylpyridinium chloride, alkyl dimethylbenzylammonium salt, tetrabutyl ammonium bromide, and a mixture of benzyl (C12-C16) alkyl dimethylammonium chlorides, and combinations thereof.

3. (previously presented) The formulation according to claim 17, further comprising a water-soluble polymer selected from the group consisting of polyvinyl alcohol, guar gum, (cationic or non-ionic) polydiallyl dimethyl ammonium chloride, polyacrylamide, poly (ethylene oxide), glycerol, polyethylene glycol 8000 (PEG 8000), and guar gum 2-hydroxypropyl ether, and combinations thereof.

4. (previously presented) The formulation according to claim 17, further comprising a fatty alcohol comprising from 8 to 20 carbon atoms per molecule.

5. (previously presented) The formulation according to claim 17, further comprising a solvent selected from the group consisting of Di(propylene glycol) methyl ether, diethylene glycol monobutyl ether, and combinations thereof.

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6. (previously presented) The formulation according to claim 17, wherein the carbonate or bicarbonate salt is selected from the group consisting of potassium bicarbonate, sodium bicarbonate, ammonium bicarbonate, ammonium hydrogen bicarbonate, lithium bicarbonate, ammonium carbonate, and potassium carbonate, and combinations thereof.
7. (previously presented) The formulation according to claim 17, wherein said bleaching activator comprises one or more water-soluble bleaching activators selected from the group consisting of acetylcholine chloride, 4-cyanobenzoic acid, ethylene glycol diacetate, propylene glycol monomethyl ether acetate, methyl acetate, dimethyl glutarate, diethylene glycol monoethyl ether acetate, glycerol diacetate (Diacetin), glycerol monoacetate, glycerol triacetate, and propylene glycol diacetate, and combinations thereof.
8. (previously presented) The formulation according to claim 17, wherein said bleaching activator comprises one or more water-insoluble bleaching activators selected from the group consisting of tetraacetyl ethylenediamine (TAED), n-nonanoyloxybenzenesulfonate (NOBS), and N-acetyl glucosamine, and combinations thereof.
9. (currently amended) The formulation according to claim 17 consisting essentially of:
- 1-10% benzalkonium chloride;
 - 1-8% propylene glycol diacetate or glycerol diacetate;
 - 1-16% hydrogen peroxide;
 - 2-8% potassium bicarbonate;
 - 1-4% sorbent additive ~~a sufficient amount of the sorbent additive, such that a freely flowing powder results when the sorbent additive is mixed with the propylene glycol diacetate or glycerol diacetate; and~~
- balance water.

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10. (Cancelled)

11. (previously presented) The formulation according to claim 17, wherein said sorbent additive comprises one or more polyol compounds selected from the group consisting of sorbitol, mannitol, hydrogenated starch hydrolysates, maltitol, zyllitol, lactitol monohydrate, anhydrous isomalt, erythritol, and polydextrose, and combinations thereof.

12-16. (CANCELLED)

17. (currently amended) A formulation for use in neutralization of a toxant, said formulation comprising:

a cationic surfactant;

a reactive compound comprising one or more compounds selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, hydroperoxycarbonate, peracetic acid, sodium perborate, sodium peroxyphosphate, sodium peroxysilicate, and sodium percarbonate;

a bleaching activator selected from the group consisting of O-acetyl, N-acetyl, and nitrile group bleaching activators;

a sorbent additive selected from the group consisting of ~~calcium hypochlorite~~, ~~calcium chloride~~, dendritic salt, polyols, urea, and potassium bromide, and combinations thereof; and

a carbonate or bicarbonate salt, not one of the reactive compounds;

wherein said cationic surfactant, said reactive compound, said bleaching activator, said sorbent additive, and said carbonate or bicarbonate salt, when mixed with water and exposed to the toxant, neutralizes the toxant.

18. (Original) The formulation according to claim 17, wherein said cationic surfactant comprises a quaternary ammonium salt comprising benzalkonium chloride.

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19. (previously presented) The formulation according to claim 17, further comprising a cationic hydrotrope.

20. (previously presented) The formulation according to claim 17 consisting essentially of said cationic surfactant, said reactive compound, said bleaching activator, said sorbent additive, said carbonate or bicarbonate salt, and water.

21-33. (CANCELLED)

34. (cancelled) ~~A formulation for use in neutralization of a toxant, said formulation comprising:~~

~~a cationic surfactant;~~

~~a reactive compound comprising one or more compounds selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, hydroperoxycarbonate, peracetic acid, sodium perborate, sodium peroxyphosphate, sodium peroxydisulfate, and sodium percarbonate;~~

~~a sorbent additive ; and~~

~~a water soluble bleaching activator selected from the group consisting of acetylcholine chloride, 4-cyanobenzoic acid, ethylene glycol diacetate, propylene glycol monomethyl ether acetate, methyl acetate, dimethyl glutarate, diethylene glycol monoethyl ether acetate, glycerol diacetate (Diacetin), glycerol monoacetate, glycerol triacetate, and propylene glycol diacetate, and combinations thereof;~~

~~wherein said cationic surfactant, said reactive compound, said sorbent additive, and said water soluble bleaching activator, when mixed with water and exposed to the toxant, neutralizes the toxant; and~~

~~wherein said sorbent additive comprises one or more polyol compounds selected from the group consisting of sorbitol, mannitol, hydrogenated~~

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~~starch hydrolysates, maltitol, zylitol, lactitol monohydrate, anhydrous isomalt, erythritol, and polydextrose, and combinations thereof.~~

35. (currently amended) A formulation for use in neutralization of a toxant, said formulation comprising:

at least one solubilizing compound, selected from the group consisting of a cationic hydrotrope and a fatty alcohol comprising from 8 to 20 carbon atoms per molecule;

a reactive compound comprising one or more compounds selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, hydroperoxycarbonate, peracetic acid, sodium perborate, sodium peroxyphosphate, sodium peroxydisulfate, and sodium percarbonate;

a sorbent additive selected from the group consisting of ~~calcium hypochlorite, calcium chloride,~~ dendritic salt, polyols, urea, and potassium bromide, and combinations thereof; and

a bleaching activator selected from the group consisting of O-acetyl, N-acetyl, and nitrile group bleaching activators;

wherein said at least one solubilizing compound, said reactive compound, said sorbent additive, and said bleaching activator, when mixed with water and exposed to the toxant, neutralizes the toxant.

36-38. (CANCELLED)

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39. ~~(cancelled) A formulation for use in neutralization of a toxant, said formulation comprising:~~

~~a cationic surfactant;~~

~~a reactive compound comprising one or more compounds selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, hydroperoxycarbonate, peracetic acid, sodium perborate, sodium peroxyphosphate, sodium peroxydicarbonate, and sodium percarbonate;~~

~~a bleaching activator selected from the group consisting of O-acetyl, N-acetyl, and nitrile group bleaching activators; and~~

~~a sorbent additive comprising a sugar alcohol;~~

~~wherein said cationic surfactant, said reactive compound, said bleaching activator, said sorbent additive, and said carbonate or bicarbonate salt, when mixed with water and exposed to the toxant, neutralizes the toxant.~~

40. (previously presented) A formulation for use in neutralization of a toxant, said formulation comprising:

a cationic surfactant;

a reactive compound comprising one or more compounds selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, hydroperoxycarbonate, peracetic acid, sodium perborate, sodium peroxyphosphate, sodium peroxydicarbonate, and sodium percarbonate;

a bleaching activator selected from the group consisting of O-acetyl, N-acetyl, and nitrile group bleaching activators; and

a sorbent additive comprising a sugar alcohol;

wherein said cationic surfactant, said reactive compound, said bleaching activator, said sorbent additive, and said carbonate or bicarbonate salt, when mixed with water and exposed to the toxant, neutralizes the toxant;

wherein the sorbent additive is sorbitol.

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41. (previously presented) The formulation of claim 40, wherein the bleaching activator is propylene glycol diacetate or glycerol diacetate.

42. (cancelled)

43. (previously presented) The formulation of claim 19, wherein the cationic hydrotrope is selected from the group consisting of tetrapentyl ammonium bromide, triacetyl methyl ammonium bromide, tetrabutyl ammonium bromide, and pentamethyltallow alkyltrimethylenediammonium dichloride.

44. (previously presented) The formulation of claim 7, wherein the bleaching activator is selected from the group consisting of acetylcholine chloride, 4-cyanobenzoic acid, propylene glycol monomethyl ether acetate, methyl acetate, dimethyl glutarate, diethylene glycol monoethyl ether acetate, glycerol diacetate (Diacetin), glycerol monoacetate, and propylene glycol diacetate, and combinations thereof.

45. (previously presented) The formulation of claim 44, wherein the bleaching activator is acetylcholine chloride or 4-cyanobenzoic acid.